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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,327	07/08/2003	Toshihiro Sunaga	1232-5073	1333
27123 MORGANI & 1	7590 08/07/2007 FINNEGAN, L.L.P.		EXAMINER	
3 WORLD FIN	NANCIAL CENTER		SAFAIPOUR, HOUSHANG	
NEW YORK,	NY 10281-2101		ART UNIT PAPER NUMBER	
			2625	
			MAIL DATE	DELIVERY MODE
			08/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

wet.	Application No.	Applicant(s)			
	10/616,327	SUNAGA, TOSHIHIRO			
Office Action Summary	Examiner	Art Unit			
	Houshang Safaipour	2625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	_•				
2a) This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) <u>1-8</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2 and 5-8</u> is/are rejected.					
7) Claim(s) 3 and 4 is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>08 July 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)⊡ Some * c)⊡ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
See the attached detailed Office action for a list of the certified copies not received.					
Ap.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/03, 01/04, 06/05, 11/05.	5) Notice of Informal Pa	atent Application			

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DETAILED ACTION

The recitation regarding the aspect ratio of the imaged subject has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2 and 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Akiyama Takeshi (EP 0 790 513 B1).

Regarding claim 1, Takeshi discloses an imaging optical system comprising:

a diaphragm (R1 in fig. 5 and R5 in fig. 40);

a first set of a plurality of curved reflection surfaces (B1) arranged on an object surface (not shown in the figures) side from the diaphragm; and

a second set of a plurality of curved reflection surfaces (B2) arranged on an image surface side from the diaphragm, wherein an optical path of a light beam passing through a

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center of the diaphragm and a center of an image obtained through the imaging is deflected by the reflection surfaces within a surface substantially perpendicular to the long side of the region to undergo crossing at least once (figs. 5 and 40 and please refer to page 37 paragraph [0268] to page 38 paragraph [0274]).

Regarding claim 2, Takeshi discloses an imaging optical system according to claim 1, wherein the crossing of the optical path is caused on the object surface side from the diaphragm (fig. 40).

Regarding claim 5, Takeshi discloses an imaging optical system according to claim 1, wherein the crossing of the optical path is caused on both the object surface side and the image surface side from the diaphragm (fig. 40).

Regarding claim 6, Takeshi discloses an imaging optical system according to claim 1, wherein optical powers applied by the reflection surfaces of the imaging optical system to the long side direction of the imaged region are all positive (figs. 5 and 40, paragraphs [0081-82]).

Regarding claim 7, Takeshi discloses an imaging optical system according to claim 1, wherein an intermediate image is not formed in the optical path (figs. 5 & 40, paragraphs [0269-0274]).

Regarding claim 8, Takeshi discloses an image reading apparatus comprising: the imaging optical system according to any one of claims 1 to 7; and a line sensor arranged substantially in an image surface position of the imaging optical system and adapted to convert a formed image to an electrical signal (fig. 40, R12 line 4-5 of page 38).

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Allowable Subject Matter

3. Claims 3 and 4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Houshang Safaipour whose telephone number is (571)272-7412. The examiner can normally be reached on Mon.-Fri. from 6:00am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Moore can be reached on (571)272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Houshang Safaipour Patent Examiner July 12, 2007 Hugh.